Translation

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference FAP-3881	FOR FURTHER ACTION	See Form PCT/IPEA/416						
International application No.	International filing date (day/mon	th/year) Priority date (day/month/year)						
PCT/JP2004/005378	15.04.2004	16.04.2003						
International Patent Classification (IPC) or nation	onal classification and IPC	1						
Applicant BRIDGESTONE CORPORATION								
	 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 							
2. This REPORT consists of a total of _	5 sho	sheets, including this cover sheet.						
3. This report is also accompanied by Al	NNEXES, comprising:							
a. (sent to the applicant and	to the International Bureau) a total	of sheets, as follows:						
	sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative							
sheets which superso	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental							
Box.								
b. (sent to the International l	Bureau only) a total of (indicate typ	e and number of electronic carrier(s))						
related thereto, in computer	, containing a sequence listing and/or tables							
related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).								
4. This report contains indications relation	ng to the following items:							
Box No. I Basis of the	report							
Box No. II Priority								
Box No. III Non-establis	shment of opinion with regard to n	ovelty, inventive step and industrial applicability						
Box No. IV Lack of unit	y of invention							
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
Box No. VI Certain doct	Box No. VI Certain documents cited							
Box No. VII Certain defe	ects in the international application							
Box No. VIII Certain observations on the international application								
Date of submission of the demand	Date of con	pletion of this report						
Name and mailing address of the IPEA/JP	Authorized	officer						
Facsimile No.		No						

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Box	No. I	Basis of the report				
1.		rd to the language, this report is based on the internation under this item.	al application in the language in which is	t was filed, unless otherwise		
	This report is based on translations from the original language into the following					
	which is the language of a translation furnished for the purposes of: international search (Rule 12.3 and 23.1(b))					
		publication of the international application (Rule 12.4)				
		international preliminary examination (Rule 55.2 and/o	or 55.3)			
2.	With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):					
	the i	international application as originally filed/furnished				
	the c	description:				
	page	es		as originally filed/furnished		
	page	es*	received by this Authority on			
İ	page	es*	received by this Authority on			
	the c	claims:				
	nos.			as originally filed/furnished		
	nos.	*	as amended (together with a	ny statement) under Article 19		
	nos.	*	received by this Authority on			
	nos.	*	received by this Authority on			
	the	drawings:				
	shee	ets		as originally filed/furnished		
	shee	ets*	received by this Authority on			
	shee	ets*	received by this Authority on			
	a see	quence listing and/or any related table(s) – see Suppleme	ental Box Relating to Sequence Listing.			
3	The	amendments have resulted in the cancellation of:				
,		the description, pages				
	一	the claims, nos.				
		the sequence listing (specify):	· · · · · · · · · · · · · · · · · · ·			
	\Box	any table(s) related to sequence listing (specify):				
4.	This	s report has been established as if (some of) the amenda	ments annexed to this report and listed	below had not been made, since		
	they	y have been considered to go beyond the disclosure as file				
		the description, pages				
	the claims, nos.					
	the drawings, sheets/figs					
	님	the sequence listing (specify):				
*	If item 4 a	applies, some or all of those sheets may be marked "supe	erseded."			

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ditations and explanations supporting such statement				
1.	Statement			
	Novelty (N)	Claims	2, 4-9, 11	YES
		Claims	1, 3, 10, 12-14	NO
	Inventive step (IS)	Claims		YES
		Claims	1-14	NO
	Industrial applicability (IA)	Claims	1-14	YES
		Claims		NO

2. Citations and explanations (Rule 70.7)

Document 1: JP 60-059063 A (Clarion Co., Ltd.), 05 April 1985

Document 2: JP 01-123067 A (Nihon Kentetsu Co., Ltd.), 16
May 1989

Document 3: JP 07-150356 A (Canon Inc.), 13 June 1995

Claims 1 and 3

The inventions set forth in claims 1 and 3 lack novelty in the light of document 1 cited in the international search report. Document 1 (claims) discloses a method for the production of a porous thin film by simultaneously sputtering a desired material and a metal material in order to form a mixed thin film, and thereafter removing only the metal material from the resulting mixed thin film by means of a plasma etching process. Therein, it is possible to infer that the porous thin film is configured from a ceramic material in the light of the applications that are disclosed therefor in document 1.

Claim 2

The invention set forth in claim 2 does not involve an inventive step in the light of document 1 cited in the

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; diations and explanations supporting such statement

international search report. The invention that is disclosed in document 1 employs a composite target; however, it would have been easy for a person skilled in the art to conceive of using two targets of different types.

Claims 10 and 12 to 14

The inventions set forth in claims 10 and 12 to 14 lack novelty in the light of document 2 cited in the international search report. Document 2 (examples) discloses a method for the production of a porous platinum film by sputtering a target that comprises both platinum and aluminum in order to form a mixed thin film, and thereafter immersing the resulting mixed thin film in an alkali solution in order to remove only the aluminum therefrom by means of elution.

Claim 11

Box No. V

The invention set forth in claim 11 does not involve an inventive step in the light of document 2 cited in the international search report. The invention that is disclosed in document 2 employs a composite target; however, it would have been easy for a person skilled in the art to conceive of using two targets of different types.

Claims 4 to 9

The inventions set forth in claims 4 to 9 do not involve an inventive step in the light of document 1 and document 2 cited in the international search report. In the light of the inventions that are disclosed in document 1 and document 2, it would have been easy for a

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

person skilled in the art to conceive of producing a porous thin film by forming a mixed coating film that comprises a metal component (aluminum, zinc or the like) and a ceramic component, and thereafter immersing the resulting mixed coating film in an acidic solution or an alkali solution in order to remove the metal component therefrom by means of elution. In addition, a person skilled in the art could select Ti for use as the material that constitutes the ceramic component, as appropriate, with consideration of the material that should ultimately constitute the porous thin film. Furthermore, it would have been easy for a person skilled in the art to conceive of baking the porous ceramic film after removing the metal component by means of elution in an acidic solution or an alkali solution.